

ABSTRACT

An economical and industrial method for the dehydrogenation of triisopropyl benzene can be provided by carrying out the reaction employing a solid catalyst having an iron compound and potassium compound as major components or an iron compound, potassium compound, and magnesium compound as major components, as a dehydrogenating catalyst for producing diisopropyl isopropenyl benzene, isopropyl diisopropenyl benzene and/or triisopropenyl benzene from triisopropyl benzene.

In the dehydrogenation of triisopropyl benzene or diisopropyl benzene, by carrying out an off-and-on reaction in which the above described solid catalyst is employed and with which a regeneration period with steam or oxygen or air is provided, an economical and industrial dehydrogenation method having an extended life of the catalyst can be provided and will have an industrial superiority.

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